

In the Claims:

Please amend the claims as follows:

1. (Currently Amended) A process for increasing the a rate of a biocatalysis reaction[[s]], which comprises:

applying a direct current (DC) electric field to a reaction mixture, wherein the reaction mixture and the electrodes used to apply said electric field are separated such that the reaction mixture does not come into contact with said electrodes.

2. (Original) A process according to claim 1, wherein said electric field is applied for a sufficient time to stimulate the biocatalysis reaction in the reaction mixture.

3. (Currently Amended) A process according to claim 1 ~~or 2~~, wherein said reaction mixture and said electrodes are separated by a separation membrane.

4. (Original) A process according to claim 3, wherein said separation membrane is any of an ion exchange membrane or a microporous membrane.

5. (Original) A process according to claim 4, wherein said separation membrane is a bipolar ion exchange membrane.

6. (Currently Amended) A process according to claim 1 ~~any of claims 1 to 4~~, wherein said electrodes form part of an electrochemical reactor.

7. (Currently Amended) A process according to claim 6, wherein said electrochemical reactor forms part of an electrodialysis stack, wherein charged organic products in the biocatalysis reaction mixture ~~medium~~ can be removed by electrodialysis.

8. (Currently Amended) A process according to claim 1 ~~any of claims 1 to 7~~, wherein said reaction mixture ~~medium~~ is contained between a bipolar membrane on the a cathode-facing side and an anion selective membrane on the an anode-facing side of

said reaction mixture medium.

9. (Currently Amended) A process according to claim 1 ~~any of claims 1 to 8~~, wherein the reaction mixture medium comprises a cationic buffer system, with the an organic product forming the an anionic component.

10. (Currently Amended) A process according to claim 9, wherein the DC electric field ~~current~~ applied is adjusted to control the pH of the reaction mixture.

11. (Currently Amended) A process according to claim 10, wherein the adjustment to the DC electric field ~~current~~ is automatically controlled under the control of a computer program.

12. (Currently Amended) A process according to claim 7 ~~any of claims 7 to 11~~, wherein the biocatalysis reaction and the electrodialysis ~~stages~~ are operated in separate, but linked, reactors, where the biocatalysis reaction mixture medium containing active biomass can be recirculated continuously to the ~~electrodialysis~~ electrochemical reactor.

13. (Currently Amended) A process according to ~~any preceding~~ claim 1, wherein the biocatalysis reaction ~~comprises any of~~ is selected from a single enzyme biotransformation reaction, a fermentation process ~~or~~ and a reaction ~~catalysed~~ catalyzed by an isolated enzyme system.

14. (Currently Amended) A process according to ~~any preceding~~ claim 1, wherein the reaction mixture comprises any of growing or resting microbial cultures.

15. (Currently Amended) A process according to claim 14, wherein said microbial ~~mixtures~~ cultures ~~comprise immobilised~~ immobilized cultures of yeast, bacteria or fungi.

16. (Currently Amended) A process according to claim 15, wherein said cultures are

~~immobilised~~ immobilized on the surfaces or in the pores of beads.

17. (New) A process according to claim 8, wherein the reaction mixture comprises a cationic buffer system, with an organic product forming an anionic component.
18. (New) A process according to claim 8, wherein the reaction mixture comprises immobilized microbial cultures of yeast, bacteria or fungi.
19. (New) A process according to claim 8, wherein the reaction mixture comprises immobilized microbial cultures on surfaces or in pores of beads.
20. (New) A process according to claim 9, wherein the reaction mixture comprises immobilized microbial cultures of yeast, bacteria or fungi on surfaces or in pores of beads.